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TITLE : PRODUCTION OF ORGANIC ACID BY TRANSFORMANT CONTAINING GENE DNA CODING POLYPEPTIDE HAVING NITRILASE ACTIVITY

ABSTRACT : PURPOSE: To produce various kinds of carboxylic acids on an industrial scale by culturing a recombinant microorganism integrated with a gene coding a nitrilase and hydrolyzing a nitrile compound by the action of the nitrilase.

CONSTITUTION: A transformant transformed with a recombinant DNA produced by integrating a vector with a gene DNA having the base sequence coding the amino acid sequence of formula and coding a polypeptide having nitrilase activity. The nitrile group of a nitrile compound is hydrolyzed by the action of a nitrilase obtained by the cultivation to convert the nitrile into the corresponding carboxylic acid and equimolar amount of ammonia.

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